

LAND APPLICATION SITE

CARLA W. BRANDON

DWCWB 1-15

DINWIDDIE COUNTY

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 3-25-14 between Carla W. Brandon referred to here as "Landowner", and Recyc Systems, Inc., referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Dinwiddie Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>25-220</u>	<u>38-10 C</u>	<u>43-1</u>	
<u>25-220A</u>	<u>38-11-E</u>	<u>43-11</u>	
<u>25-221</u>	<u>38-68B</u>	<u>42-31E</u>	
<u>255-222</u>	<u>38-19</u>	<u>42-37F</u>	
<u>38-110</u>	<u>38-BB</u>		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Carla Brandon Carla Brandon 3118 Gubby Rd
Landowner - Printed Name, Title Signature Mailing Address & Phone Number Wilson, Va. 804-712-357

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

[Signature] PO Box 562 Remington, Virginia 22734
Permittee - Authorized Representative Signature Mailing Address
Printed Name

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc

County or City: Dinwiddie

Landowner: Carla W. Brandon

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Carla Brandon
Landowner's Signature

3-25-14
Date

Carla Brandon
Farm Operator Signature

3118 Bubby Rd Wilson, Va.
Mailing Address & Phone Number
804-712-3570

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: Recyc Systems Inc.Site Name: Carla W. BrandonCounty or City: Dinwiddie

Please Print

Signature not required on this page

<u>Tax Parcel ID(s)</u>	<u>Landowners (s)</u>
25-20	Carla W. Brandon
25-20A	Carla W. Brandon
25-21	Carla W. Brandon
25-22	Carla W. Brandon
38-10	Carla W. Brandon
38-10C	Carla W. Brandon
38-1-E	Carla W. Brandon
38-8B	Carla W. Brandon
38-9	Carla W. Brandon
38-9B	Carla W. Brandon
43-1	Carla W. Brandon
43-11	Carla W. Brandon
42-37E	Carla W. Brandon
42-37F	Carla W. Brandon

FARM DATA SHEET

SITE NAME:	Carla W. Brandon	COUNTY:	Dinwiddie
OWNER:	Carla W. Brandon	OPERATOR:	Carla W. Brandon
OWNER'S ADDRESS	3118 Grubby Road Wilsons, VA 23894	OPERATOR'S ADDRESS	3118 Grubby Road Wilsons, VA 23894
OWNER'S TELEPHONE	804-265-5579	OPERATOR'S TELEPHONE	804-265-5579
GENERAL FARM TYPE	Hay/ Pasture/Row Crop	CELL PHONE:	804-712-3570
# CATTLE:	75	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	37°07'13"N Fields 1-10 37°07'11"N Fields 11-15
TOPO QUAD:	Darvills and DeWitt	LONGITUDE:	77°50'49"W Fields 1-10 77°39'53"W Fields 11-15
COMMENTS:			

BB

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
DWCWB 1	3.6	-	-	-	-	CU 20	TM 38841-E	T 22451 F 11
DWCWB 2	9.5	-	-	-	-	CU 20	TM 38841-E	T 22451 F 6, 8, 12
DWCWB 3	10.5	-	-	-	-	CU 20	TM 38841-E	T 22451 F 4, 5, 6
DWCWB 4	4.6	-	-	-	-	CU 20	TM 38841-E	T 22451 F 6
DWCWB 5	6.9	-	-	-	-	CU 20	TM 38841-E	T 22451 F 5
DWCWB 6	13.1	-	-	-	-	CU 20	TM 38841-E	T 22451 F 2, 10
DWCWB 7	3.4	-	-	-	-	CU 20	TM 38841-E	T 22451 F 4
DWCWB 8	6.6	-	-	-	-	CU 20	TM 38841-E TM 3888B TM 388410	T 22451 F 9 T 56605 F 5, 6
DWCWB 9	16.9	-	-	-	-	CU 20	TM 388410 TM 388410C	T 56605 F 3, 4
DWCWB 10	37.9	-	-	-	-	CU 20	TM 388410	T 56605 F 1, 2, 3
DWCWB 11	16.7	-	-	-	-	CU 22	TM 483-1	T 56915 F 12, 15
DWCWB 12	10.3	-	-	-	-	CU 22	TM 483-1	T 56915 F 10, 12

DWCWB 13	20.0	-	-	-	-	CU 22	TM 483-1 TM 483411	T 5915 F 11
DWCWB 14	9.8	-	-	-	-	CU 20	TM 483411	T 6025 F 3
DWCWB 15	14.1	-	-	-	-	CU 22	TM 483-1	T 5915 F 7, 9
TOTAL ACRES IN SITE	183.9							

Report Number: 14-090-0585

Account Number: 70594



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A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
CARLA W BRANDON/DWCWB
DINWIDDIE

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 03/31/2014

Date Of Analysis: 04/01/2014

Date Of Report: 04/01/2014

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Reserve Rate			K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1	16911	2.9 M	M 9	94	300 V	VH			93	M	199	H	1433	H			6.6	6.87	0.6	9.6
2	16912	1.9 L	L 8	82	117 V	VH			25	VL	70	M	577	H			6.2	6.88	0.5	4.0
3	16913	2.2 L	L 8	85	122 V	VH			26	VL	135	H	892	H			6.5	6.88	0.5	6.1
4	16914	1.9 L	L 8	80	232 V	VH			68	L	118	H	901	H			6.8		0.2	5.8
5	16916	2.6 M	M 9	93	28 L	L			54	VL	164	H	995	H			6.9		0.1	6.6

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K	Mg	Ca	Na	H	NO ₃ N	S	Zn	Mn	Fe	Cu	B	SS	Cl	Al
	%	%	%	%	%	ppm Rate	ppm Rate	ppm Rate	ppm Rate	ppm Rate	ppm Rate	ppm Rate	ms/cm Rate	ppm Rate	ppm
1	2.5	17.3	74.6		5.9										
2	1.6	14.6	72.1		12.2										
3	1.1	18.4	73.1		7.4										
4	3.0	17.0	77.7		2.9										
5	2.1	20.7	75.4		1.4										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGroary*

Paucic McGroary

Report Number: 14-090-0585

Account Number: 70594



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A&L Eastern Laboratories

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Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
CARLA W BRANDON/DWCWB
DINWIDDIE

Submitted By: BB
Farm ID:

Date Received: 03/31/2014

Date Of Report: 04/01/2014

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
1	Adjust pH to 6.8	0	1.0				0						
2	Adjust pH to 6.8	0	1.3				10						
3	Adjust pH to 6.8	0	1.0				0						
4	Adjust pH to 6.8	0	0.0				0						
5	Adjust pH to 6.8	0	0.0				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Grower:
CARLA W BRANDON/DWCWB
DINWIDDIE

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 03/31/2014

Date Of Analysis: 04/01/2014

Date Of Report: 04/01/2014

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
6	16917	2.7	M	94	38	M			141	H	186	H	933	M			6.9		0.1	6.7
7	16918	2.2	L	84	17	L			36	VL	194	H	966	H			6.7	6.90	0.3	6.8
8	16919	1.3	L	70	204	VH			18	VL	69	M	672	H			6.5	6.90	0.3	4.3
9	16920	1.3	L	70	208	VH			42	L	112	H	671	H			7.1		0.0	4.4
10A	16921	2.1	L	83	17	L			35	VL	159	H	1005	H			7.1		0.0	6.4

Sample ID Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
6	5.4	23.1	69.6		1.4																			
7	1.4	23.8	71.0		4.5																			
8	1.1	13.4	78.1		7.4																			
9	2.4	21.2	76.3		0.0																			
10A	1.4	20.7	78.5		0.0																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGeary*

Paucic McGeary

Report Number: 14-090-0585

Account Number: 70594



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A&L Eastern Laboratories

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Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower: CARLA W BRANDON/DWCWB
DINWIDDIE

Submitted By: BB
Farm ID:

Date Received: 03/31/2014

Date Of Report: 04/01/2014

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
6	Adjust pH to 6.8	0	0.0				0						
7	Adjust pH to 6.8	0	1.0				0						
8	Adjust pH to 6.8	0	1.0				11						
9	Adjust pH to 6.8	0	0.0				0						
10A	Adjust pH to 6.8	0	0.0				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 03/31/2014

Date Of Analysis: 04/01/2014

Date Of Report: 04/01/2014

Sample ID Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
10B	16922	1.9	L	79	17	L			27	VL	162	H	907	H			7.1		0.0	6.0

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	Cl ppm Rate	Al ppm
10B	1.2	22.5	75.6		0.0										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

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Grower: CARLA W BRANDON/DWCWB
DINWIDDIE

Submitted By: BB
Farm ID:

Date Received: 03/31/2014

Date Of Report: 04/01/2014

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
10B	Adjust pH to 6.8	0	0.0				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Paucic McGeary

Report Number: 14-120-0585

Account Number: 70594



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Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
CARLA W BRANDON
DINWIDDIE

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 04/30/2014

Date Of Analysis: 05/01/2014

Date Of Report: 05/01/2014

Sample ID Field ID	Lab Number	Organic Matter				Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	lb	Mehlich 3 ppm	Rat	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	ppm	Rate	Soil pH	Buffer Index	H meq/100g
11	08802	3.6	M	M 11	113	82	H	H		44	VL	168	H	890	M			6.5	6.88	0.5	6.4
12	08804	2.9	M	M 10	101	118	V	VH		87	M	113	H	574	M			6.2	6.87	0.6	4.6
13	08805	2.8	M	M 10	102	91	H	H		27	VL	36	M	308	M			5.3	6.84	0.9	2.8
14	08806	2.3	L	L 9	93	157	V	VH		22	VL	24	L	226	L			5.0	6.83	1.0	2.3
15	08807	3.0	M	M 10	103	82	H	H		43	VL	123	H	678	M			6.3	6.88	0.5	5.1

Sample ID Field ID	Percent Base Saturation					Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	Chloride	Aluminum
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm	S ppm	Zn ppm	Mn ppm	Fe ppm	Cu ppm	B ppm	SS ms/cm	Cl ppm	Al ppm
11	1.8	21.9	69.5		7.5										
12	4.8	20.5	62.4		12.1										
13	2.5	10.7	55.0		30.7										
14	2.5	8.7	49.1		41.7										
15	2.2	20.1	66.5		10.5										

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: *Paucic McGroary*

Paucic McGroary

Report Number: 14-120-0585

Account Number: 70594



www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
CARLA W BRANDON
DINWIDDIE

Submitted By: BB
Farm ID:

Date Received: 04/30/2014

Date Of Report: 05/01/2014

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
11	Adjust pH to 6.8	0	1.0				0						
12	Adjust pH to 6.8	0	1.3				0						
13	Adjust pH to 6.8	0	1.8				44						
14	Adjust pH to 6.8	0	1.8				56						
15	Adjust pH to 6.8	0	1.0				0						

Comments:

Sample(s) : 13,14 Crop: Adjust pH to 6.8

Apply dolomitic lime to raise pH and improve the magnesium level.

If dolomitic lime is not used, apply required magnesium with magnesium oxide. Epsom Salts, K-Mag or Sul-PO-Mag.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGeary

Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Spring, 2014-Summer, 2016)
Carla W. Brandon
Planner: Recyc Systems, Inc

Tract: 2451 Location: Dinwiddie
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Bios Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - applied N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
1/DWCWB 1(OP)	4/4	2014	Grass Pasture	50-0-40	0/0				50-0-40	25			
6, 8, 12/DWCWB 2(N)	10/10	2014	Fescue grass hay mt.	70-40-130	0/0				70-40-130	N/A			
4, 5, 6/DWCWB 3(N)	11/11	2014	Fescue grass hay mt.	90-40-220	0/0				90-40-220	N/A			
6/DWCWB 4(1P)	5/5	2014	Grass Pasture	50-0-50	0/0				50-0-50	25			
5/DWCWB 5(N)	7/7	2014	Grass Pasture	50-90-90	0/0				50-90-90	N/A			
2, 10/DWCWB 6(N)	13/13	2014	Grass Pasture	50-80-0	0/0				50-80-0	N/A			
4/DWCWB 7(N)	3/3	2014	Grass Pasture	50-100-110	0/0				50-100-110	N/A			
9/DWCWB 8(1P)	7/7	2014	Corn (grain)	120-0-100	20/0				100-0-100	46			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 5605 Location: Dinwiddie
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
3, 4/DWCWB 9(1P)	17/17	2014	Grass Pasture	50-0-60	0/0				50-0-60	25			
1, 2, 3/DWCWB 10(N)	38/38	2014	Grass Pasture	50-40-70	0/0				50-40-70	N/A			

Commercial Application Methods:
 br - Broadcast ba - Banded sd - Sidedress
 Notes:

Tract: 5915 Location: Dinwiddie
 (N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
12, 15/DWCWB 11(N)	17/17	2014	Grass Pasture	50-0-60	0/0				50-0-60	N/A			
10, 12/DWCWB 12(N)	10/10	2014	Grass Pasture	50-0-40	0/0				50-0-40	N/A			
11/DWCWB 13(N)	20/20	2014	Corn (grain)	120-30-100	20/0				100-30-100	N/A			
7, 9/DWCWB 15(N)	14/14	2014	Grass Pasture	50-0-60	0/0				50-0-60	N/A			

Commercial Application Methods:
 br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 6025 Location: Dinwiddie

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
3/DWCWB 14(1P)	10/10	2014	Corn (grain)	120-0-100	20/0				100-0-100	46			

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P205	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
2451	DWCWB 1	4	2014-Sp	VH (300 P ppm)	M (93 K ppm)	A&L Mill	6.6		
2451	DWCWB 2	10	2014-Sp	H+ (117 P ppm)	L (25 K ppm)	A&L Mill	6.2		
2451	DWCWB 3	11	2014-Sp	H+ ((1122 P ppm))	L (26 K ppm)	A&L Mill	6.5		
2451	DWCWB 4	5	2014-Sp	VH (232 P ppm)	M- (68 K ppm)	A&L Mill	6.8		
2451	DWCWB 5	7	2014-Sp	M- (28 P ppm)	M- (54 K ppm)	A&L Mill	6.9		
2451	DWCWB 6	13	2014-Sp	M (38 P ppm)	H- ((141 K ppm))	A&L Mill	6.9		
2451	DWCWB 7	3	2014-Sp	L+ (17 P ppm)	L (36 K ppm)	A&L Mill	6.7		
2451	DWCWB 8	7	2014-Sp	VH (204 P ppm)	L (18 K ppm)	A&L Mill	6.5		
5605	DWCWB 9	17	2014-Sp	VH (208 P ppm)	L+ (42 K ppm)	A&L Mill	7.1		
5605	DWCWB 10	38	2014-Sp	L+ (17 P ppm)	L (35 K ppm)	A&L Mill	7.1		
5915	DWCWB 11	17	2014-Sp	H (82 P ppm)	L+ (44 K ppm)	A&L Mill	6.5		
5915	DWCWB 12	10	2014-Sp	H+ ((1118 P ppm))	M (87 K ppm)	A&L Mill	6.2		
5915	DWCWB 13	20	2014-Sp	H (91 P ppm)	L (27 K ppm)	A&L Mill	5.3		
5915	DWCWB 15	14	2014-Sp	H (82 P ppm)	L+ (43 K ppm)	A&L Mill	6.3		
6025	DWCWB 14	10	2014-Sp	VH (157 P ppm)	L (22 K ppm)	A&L Mill	5.		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
2451	2451/1	DWCWB 1	4	Appling	IVa	II	III	III	
	2451/6, 8, 1	DWCWB 2	10	Appling	IVa	II	III	III	
	2451/4, 5, 6	DWCWB 3	31 11	Cecil	IVa	II	III	II	
	2451/6	DWCWB 4	5	Appling	IVa	II	III	III	
	2451/5	DWCWB 5	7	Cecil	IVa	II	III	II	
	2451/2, 10	DWCWB 6	13	Cecil	IVa	II	III	II	
	2451/4	DWCWB 7	3	Cecil	IVa	II	III	II	
	2451/9	DWCWB 8	7	Appling	IVa	II	III	III	
5005	5005/3, 4, 4	DWCWB 9	17 7	Appling g	IVa	II	III	III	
	5005/1, 2, 3	DWCWB 10	38 8	Appling g	IVa	II	III	III	
5915	5915/12, 15	DWCWB 11	17	Appling g	IVa	II	III	III	
	5915/10, 12	DWCWB 12	10 0	Appling g	IVa	II	III	III	
	5915/11	DWCWB 13	20 0	Appling g	IVa	II	III	III	
	5915/7, 9, 9	DWCWB 15	14 4	Appling g	IVa	II	III	III	
6025	6025/3	DWCWB 14	100	Appling	IVa	II	III	III	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	≥170	≥80	≥64	≥6	≥4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	≤4	3.0-3.5
IV	100-130	50-60	40-48	NA	≤3.0
V	≤100	≤50	≤40	NA	NA

Farm Summary Report

Plan: New Plan Spring, 2014 - Summer, 2016

Farm Name: Carla W. Brandon
Location: Dinwiddie
Specialist: Recyc Systems, Inc
N-based Acres: 142.4
P-based Acres: 41.5

Tract Name: 2451
FSA Number: 2451
Location: Dinwiddie

Field Name: DWCWB 1
Total Acres: 3.60 Usable Acres: 3.60
FSA Number: 1
Tract: 2451
Location: Dinwiddie
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
Zero-P
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.6	VH(300 P ppm)	M(93 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
---------	--------	-------------

100 2B Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	2.3 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: DWCWB 2

Total Acres: 9.50 Usable Acres: 9.50

FSA Number: 6, 8, 12

Tract: 2451

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.2	H+(117 P ppm)	L(25 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	2B Appling	

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	2.5 tons	Fescue grass (hay), maint. - No Till

Field Name: DWCWB 3

Total Acres: 10.50 Usable Acres: 10.50

FSA Number: 4, 5, 6

Tract: 2451

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.5	H+(122 P ppm)	L(26 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
36	2B	Appling
64	4B	Cecil

Field Warnings:**Crop Rotation:**

PLANTED	YIELD	CROP NAME
2014-Sp	3.1 * tons	Fescue grass (hay), maint. - No Till

Field Name: DWCWB 4

Total Acres: 4.60 Usable Acres: 4.60

FSA Number: 6

Tract: 2451

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.8	VH(232 P ppm)	M-(68 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	2B Appling	

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	2.3 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: DWCWB 5

Total Acres: 6.90 Usable Acres: 6.90

FSA Number: 5

Tract: 2451

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.9	M-(28 P ppm)	M-(54 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
38	2B	Appling
62	4B	Cecil

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	1.7 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: DWCWB 6

Total Acres: 13.10 Usable Acres: 13.10

FSA Number: 2, 10

Tract: 2451

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.9	M(38 P ppm)	H-(141 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
63	4B	Cecil
37	4C	Cecil

Field Warnings:**Crop Rotation:**

PLANTED	YIELD	CROP NAME
2014-Sp	1.3 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: DWCWB 7

Total Acres: 3.40 Usable Acres: 3.40

FSA Number: 4

Tract: 2451

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.7	L+(17 P ppm)	L(36 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
3	2B	Appling
74	4B	Cecil
22	4C	Cecil

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	1.3 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: DWCVB 8

Total Acres:	6.60	Usable Acres:	6.60
FSA Number:	9		
Tract:	2451		
Location:	Dinwiddie		
Slope Class:	B	Hydrologic Group:	B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

P-based(1.0)
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.5	VH(204 P ppm)	L(18 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	2B	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	120.0 bushel(s)	Corn (grain) - No Till

Tract Name: 5605
FSA Number: 5605
Location: Dinwiddie

Field Name: DWCWB 9
Total Acres: 16.90 **Usable Acres:** 16.90
FSA Number: 3, 4
Tract: 5605
Location: Dinwiddie
Slope Class: B **Hydrologic Group:** B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	7.1	VH(208 P ppm)	L+(42 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
100	2B Appling	

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	2.3 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: DWCWB 10
Total Acres: 37.90 **Usable Acres:** 37.90

FSA Number: 1, 2, 3
Tract: 5605
Location: Dinwiddie
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	7.1	L+(17 P ppm)	L(35 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
91	2B	Appling
7	2C	Appling
2	4C	Cecil

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	2.3 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Tract Name: 5915

FSA Number: 5915

Location: Dinwiddie

Field Name: DWCWB 11

Total Acres: 16.70 Usable Acres: 16.70

FSA Number: 12, 15

Tract: 5915
Location: Dinwiddie
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.5	H(82 P ppm)	L+(44 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
95	2B	Appling
5	2C	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	2.3 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: DWCWB 12

Total Acres: 10.30 Usable Acres: 10.30

FSA Number: 10, 12

Tract: 5915

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.2	H+(118 P ppm)	M(87 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
87	2B	Appling
13	2C	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	2.3 acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: DWCWB 13

Total Acres: 20.00 Usable Acres: 20.00

FSA Number: 11

Tract: 5915

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	5.3	H(91 P ppm)	L(27 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
96	2B	Appling
4	2C	Appling

Field Warnings:**Crop Rotation:**

PLANTED	YIELD	CROP NAME
2014-Sp	120.0 bushel(s)	Corn (grain) - No Till

Field Name: DWCVB 15

Total Acres: 14.10 Usable Acres: 14.10

FSA Number: 7, 9

Tract: 5915

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Sp-2014	6.3	H(82 P ppm)	L+(43 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES
24	2B	Appling
45	2C	Appling
31	4B	Cecil

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2014-Sp	2.0 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Tract Name: 6025

FSA Number: 6025

Location: Dinwiddie

Field Name: DWCWB 14

Total Acres: 9.80 Usable Acres: 9.80

FSA Number: 3

Tract: 6025

Location: Dinwiddie

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Sp-2014	5.0	VH(157 P ppm)	L(22 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
93	2B	Appling
7	2C	Appling

Field Warnings:

Crop Rotation:

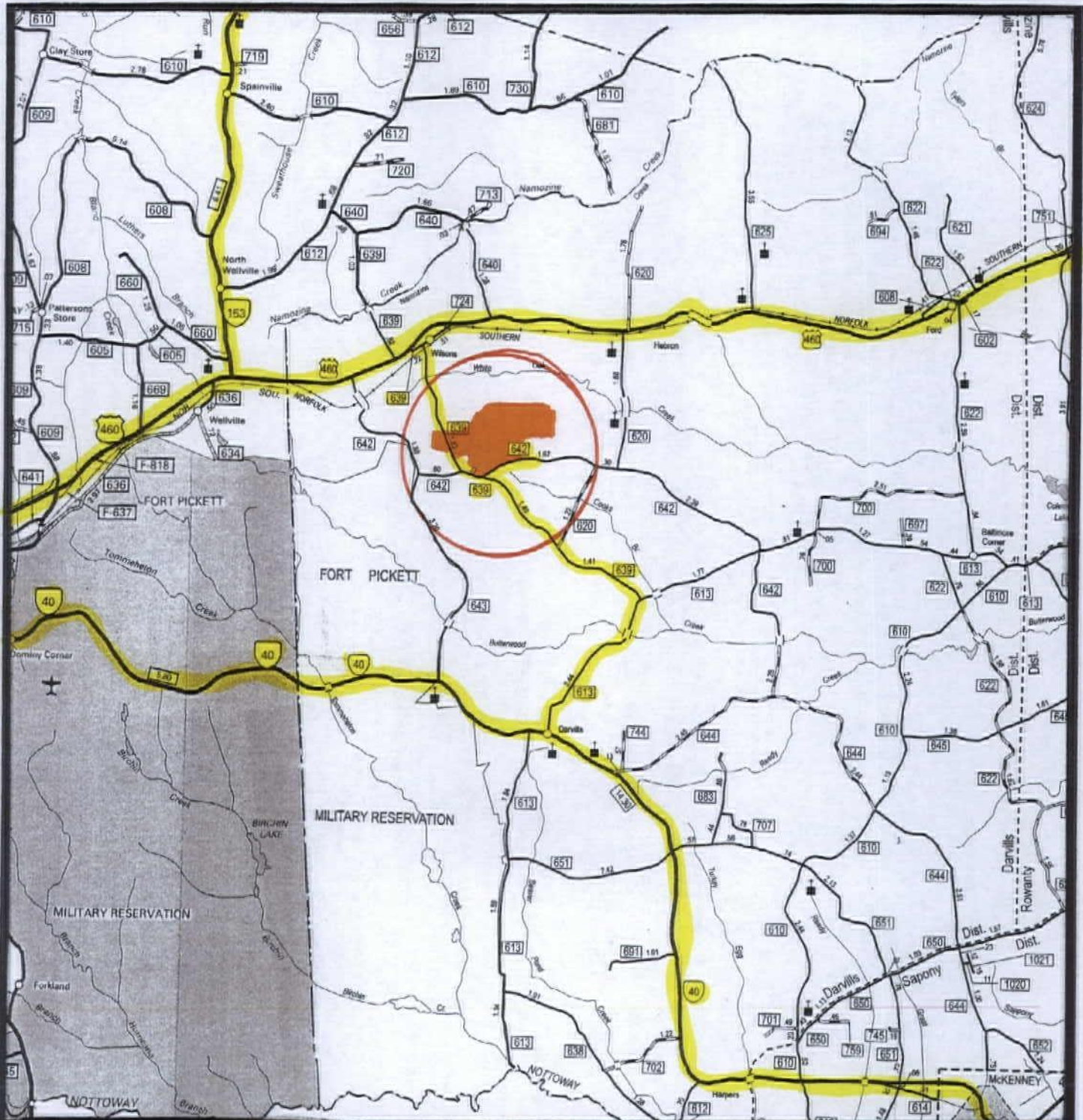
PLANTED	YIELD	CROP NAME
2014-Sp	120.0 bushel(s)	Corn (grain) - No Till

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MAPS

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 2 miles

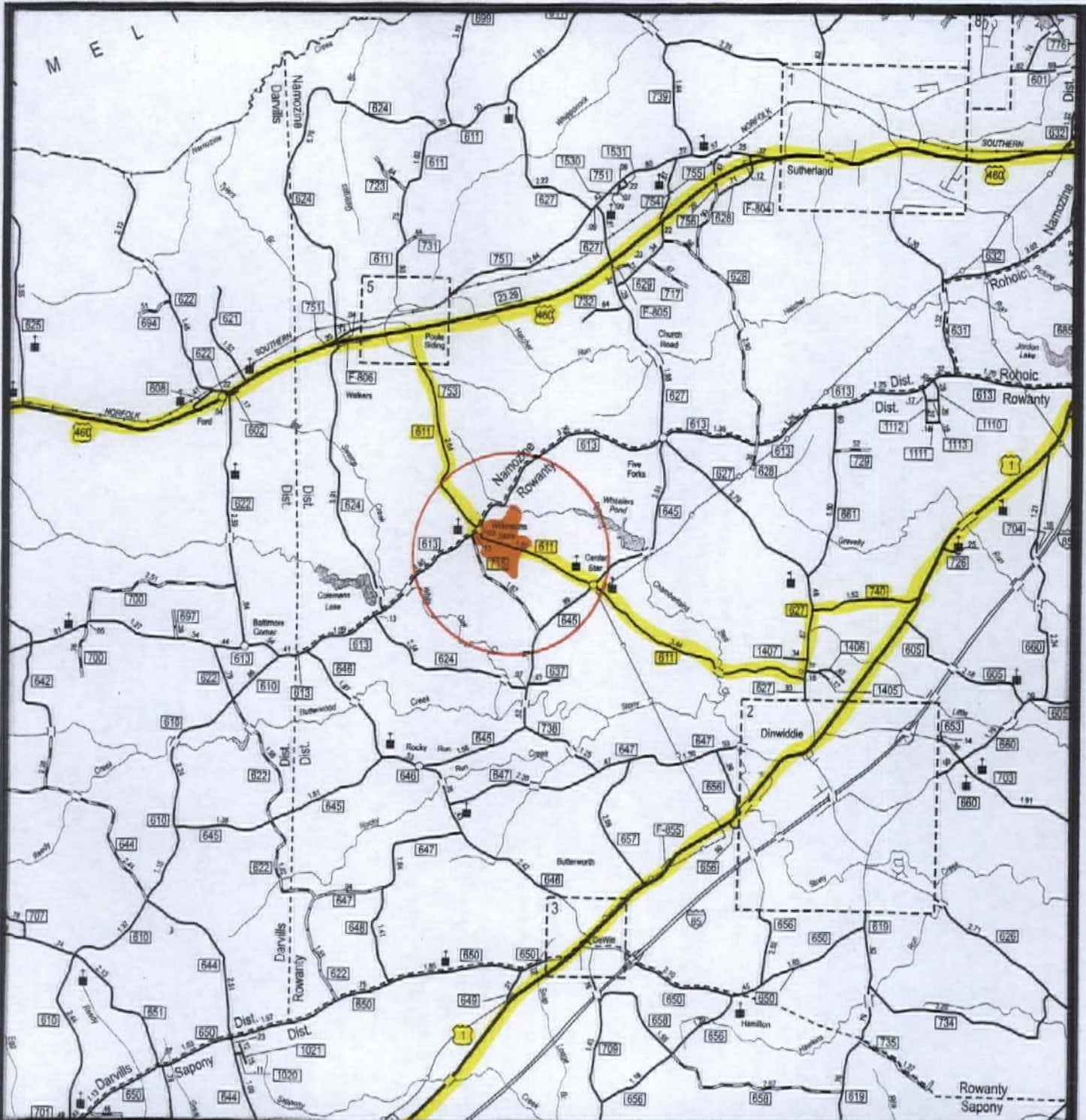
DWCWB 1-10

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 2 miles

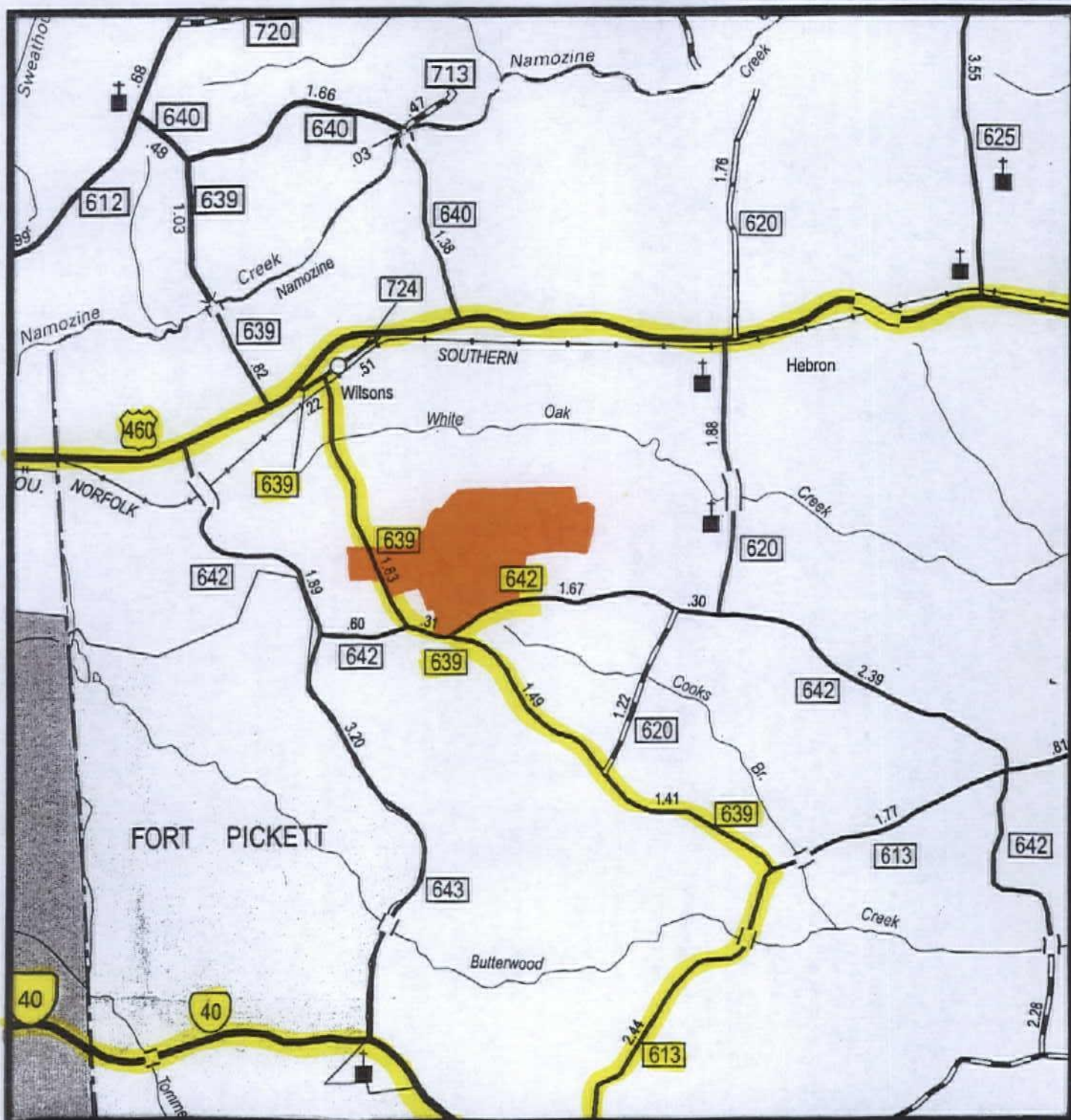
DWCWB 11-15

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 1 mile

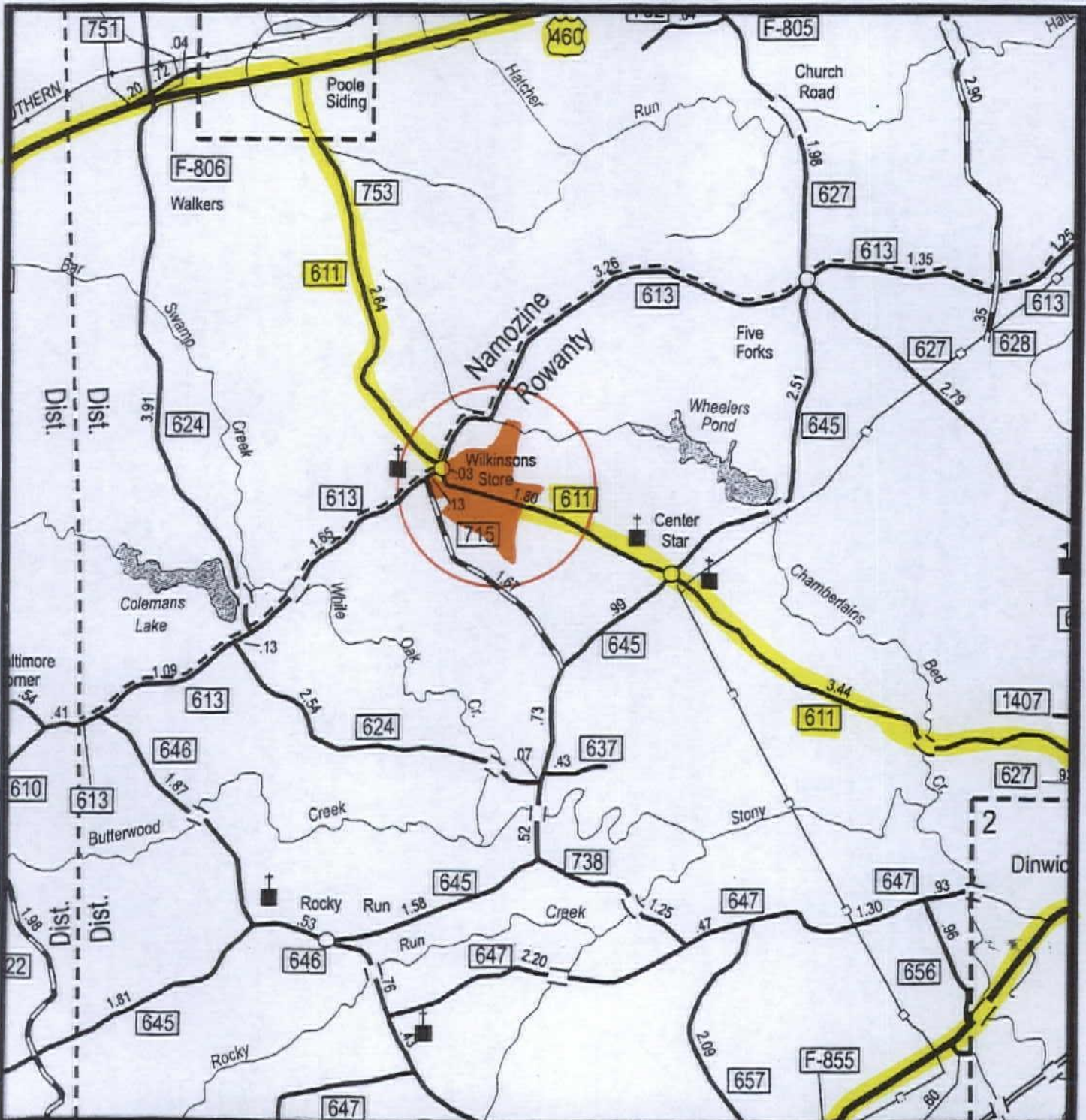
DWCWB 1-10

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 1 mile

DWCWB 11-15

VICINITY MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: Not to scale

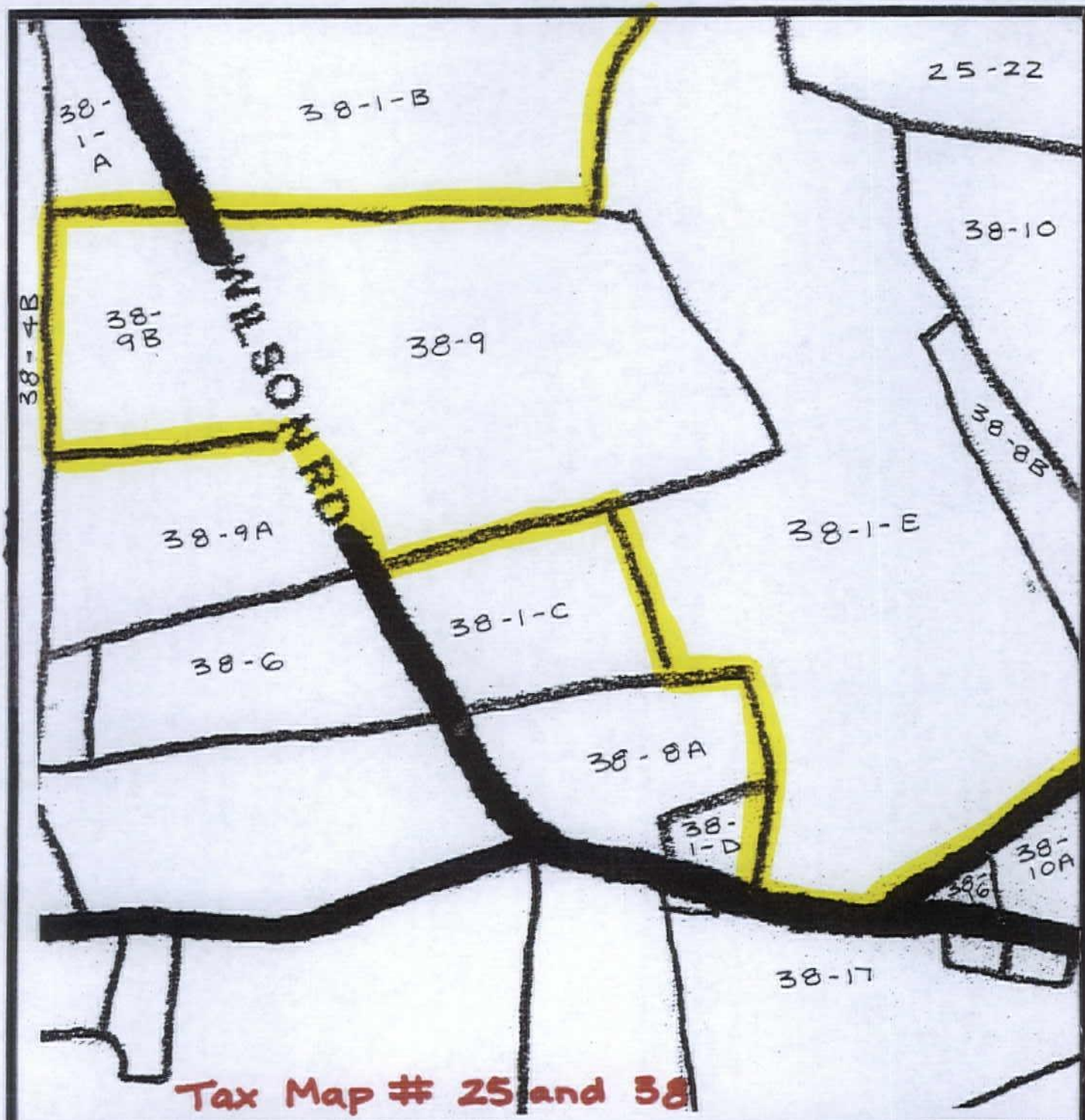
DWCWB 1-10

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

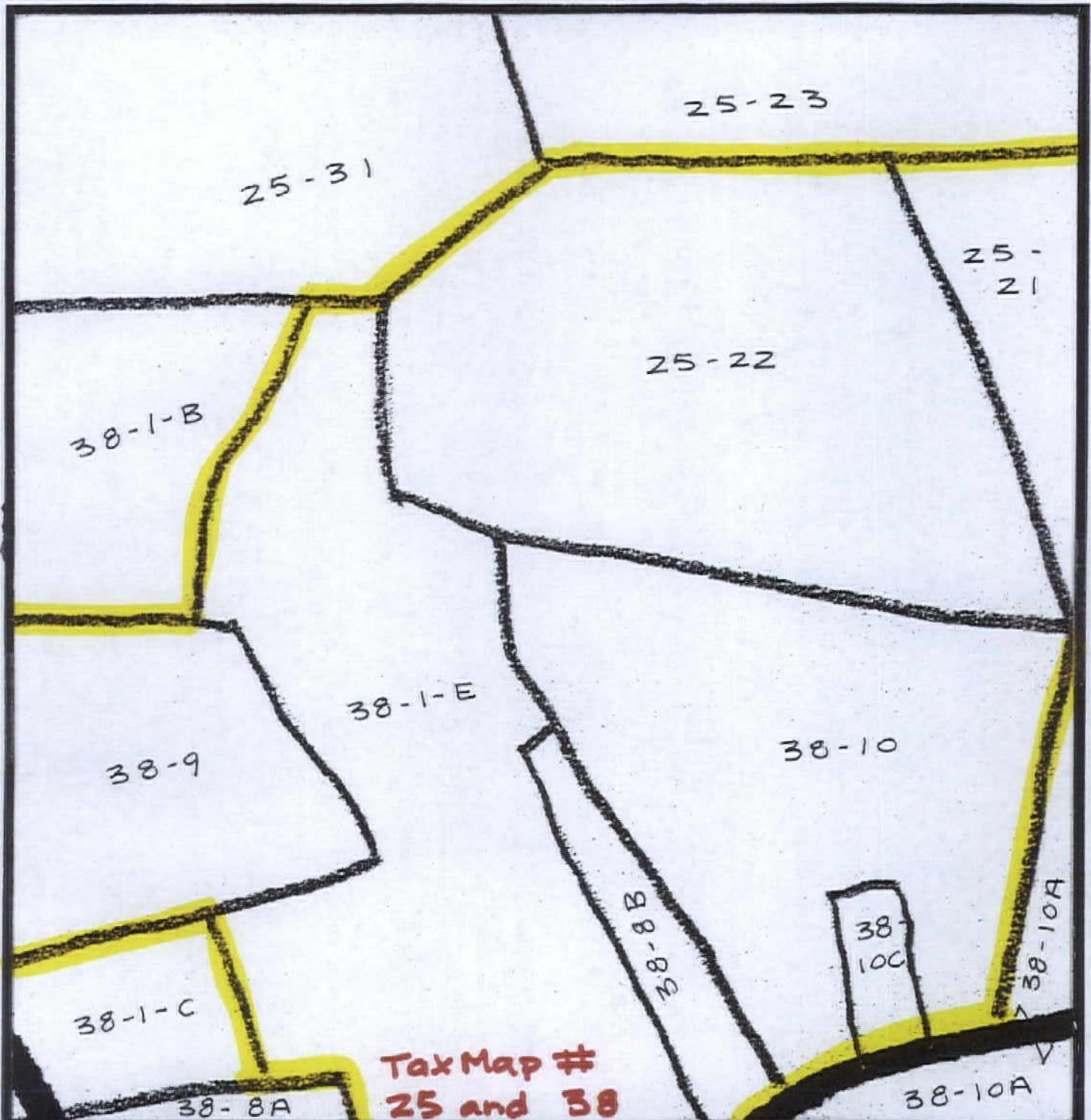
DWCWB 1-7

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

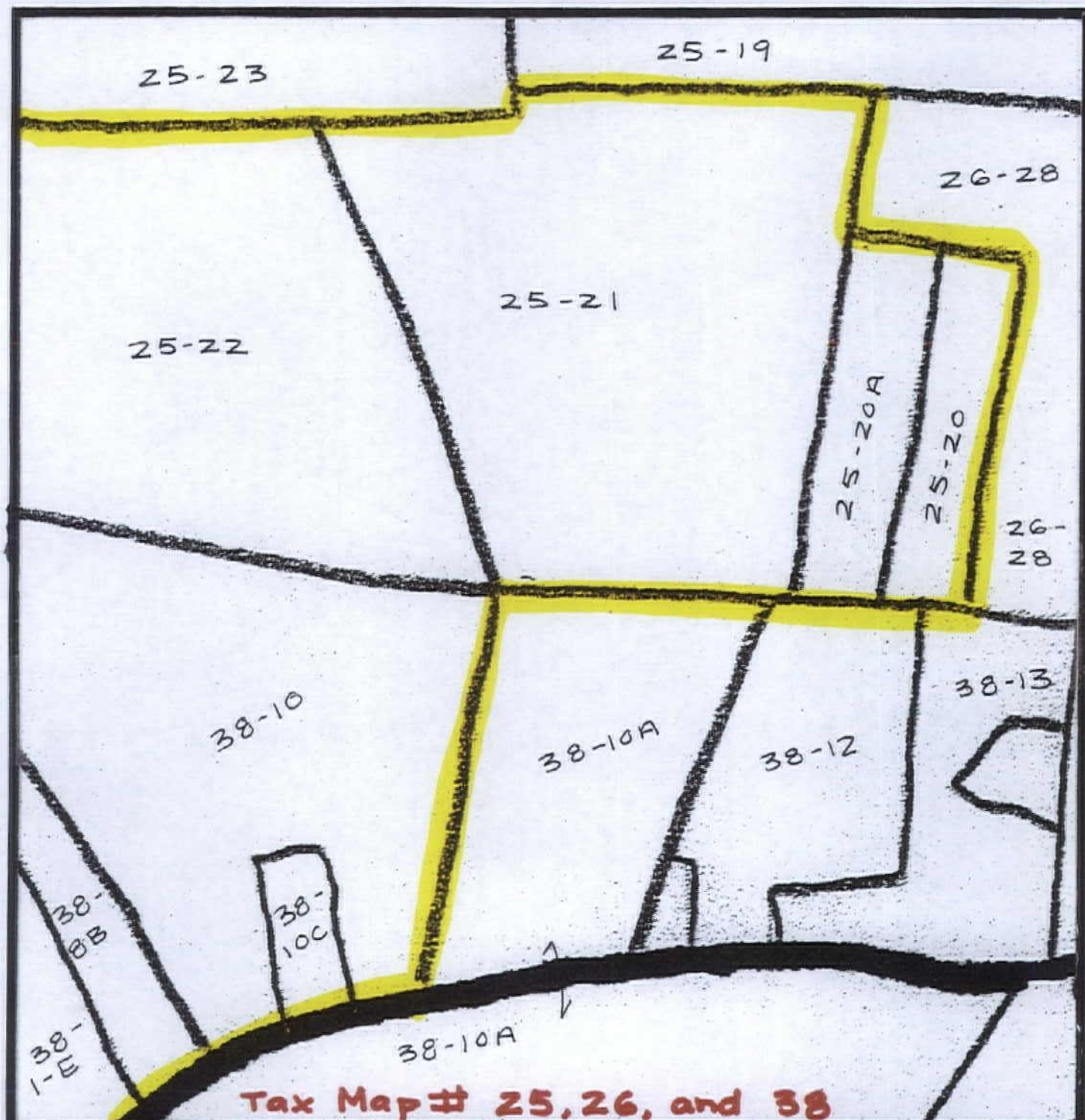
DWCWB 8-10

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

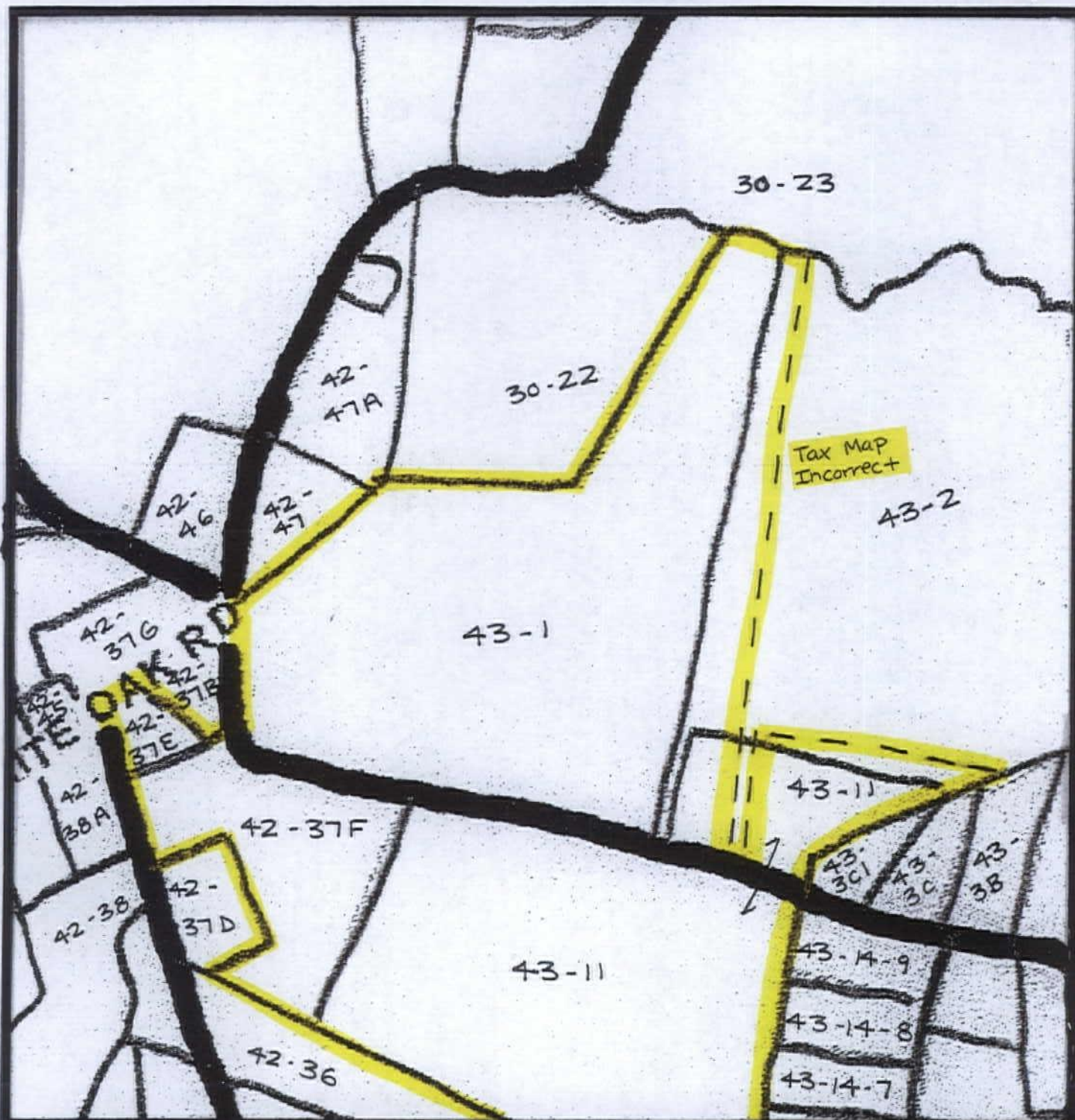
DWCWB 8-10

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

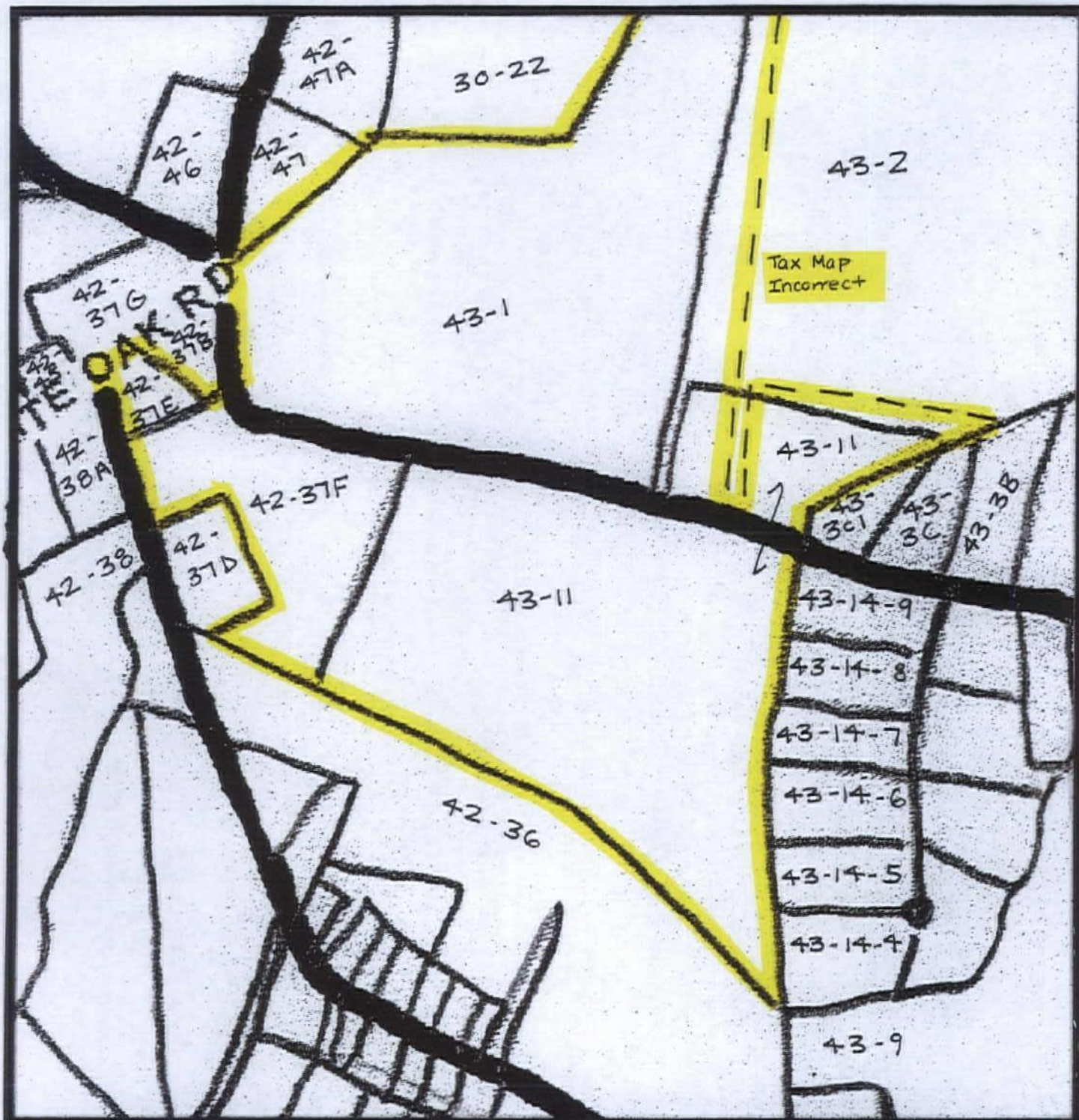
DWCWB 11-15

TAX MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

DWCWB 11-15

TAX MAP



(Biosolids Land Application)



PB 17 PG 347



WINN-DIXIE CIRCUIT COURT CLERK'S OFFICE
LODGED

7:27 o'clock P.M.

OCT 14 2004

By: [Signature]
DEPUTY
D.B. [Signature] Page 20 & Examiner

JOHN M. WILKINSON
23 257 P 24
102.54 ACRES

[illegible]

88-01128 W - 88-01128
 800 JAMES ZIMMERMAN
 JUNE 2003 / 85-0
 MAP
 SHOWING A TRAIL OF L
 AND A DIVISION FURN
 SITUATED ROMANTY DIS
 DUNNIDGE COUNTY, VA
 OWNED BY, SUPPORTED, F
 CARLA W. BRANSON
 (NOTE: 11-20-03)
 800 JAMES ZIMMERMAN, 1100

λ	R	T	C	CO	APC
152°	$95^{\circ}43'$	2.57	473°	$N66^{\circ}42'09.95''W$	$4.13'$
173°	$33^{\circ}47.2$	28.84	146.6°	$N67^{\circ}34'06''W$	$14.67'$
179°	$167^{\circ}02'$	94.20°	189.12°	$N70^{\circ}49'04.67''W$	$189.21'$
181°	$24^{\circ}45'$	$101.44'$	270.35°	$N44^{\circ}18'12.81''W$	$270.00'$
194°	$95^{\circ}43'$	$101.44'$	222.44°	$N44^{\circ}03'33.55''W$	$222.46'$

* Supplemental Plat *

Scale: 1" = 660 ft.

DWCWB 11-13, 15

TAX MAP



ADJOINING LANDOWNERS

Carla W. Brandon

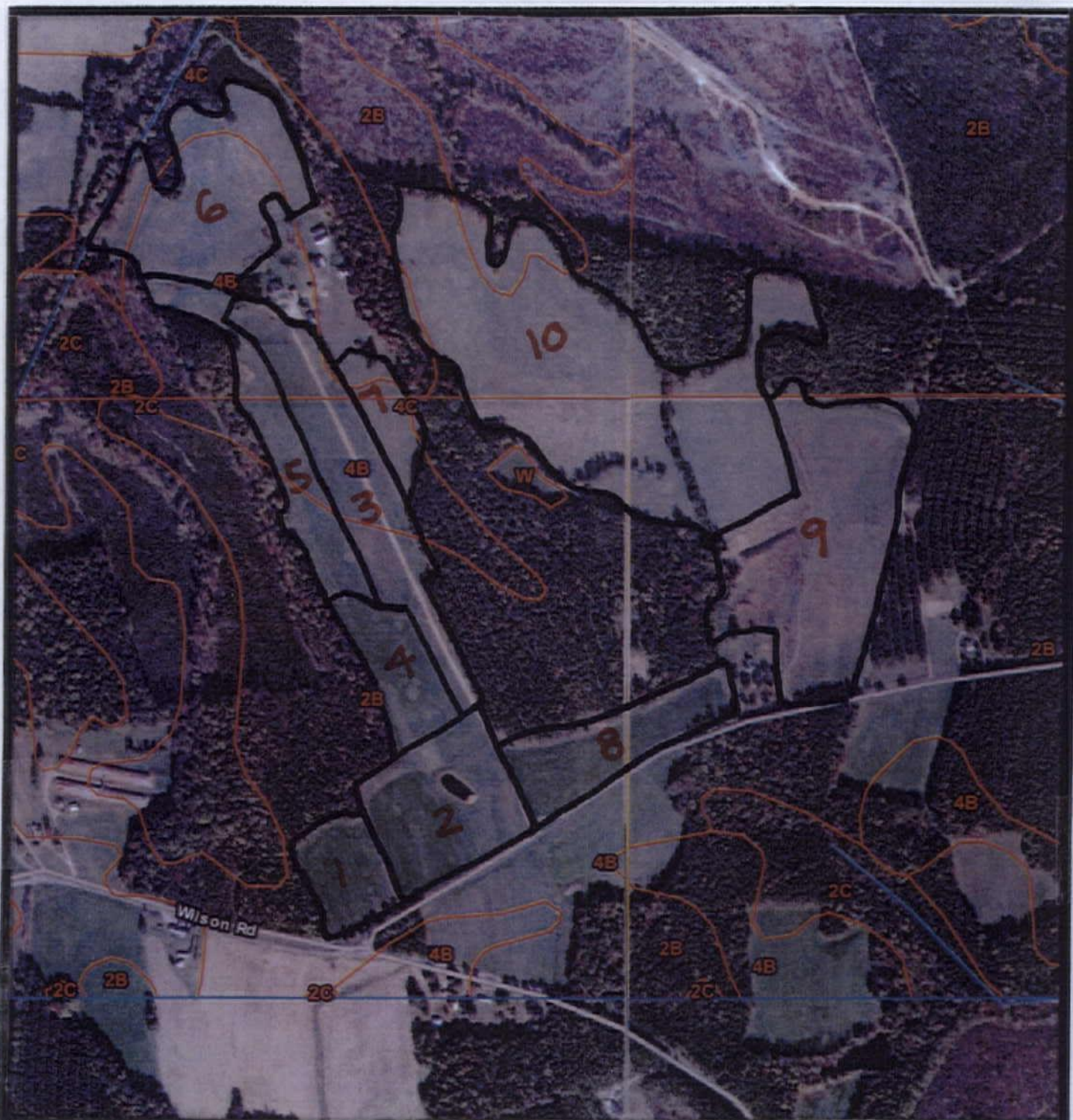
DINWIDDIE COUNTY

Tax Map	Parcel #	Owner Name(s)
25	19	Christopher M. and Emily L. Prosis
	23	Taylor R. Anderson c/o David A. Anderson Trustee
	31	Tamara R. Anderson
26	28	Betty W. Sculthorpe and Tonya W. Mann
30	22	Rodney W. and Patricia S. Crockett
	23	Stephen and Carolyn Perry Living Trust; Stephen F. and Carolyn M. Perry
38	4B	Harrison A. or Deborah Moody
	6	Robert Curtis Blair Jr. and Betty Kay Blair McLoughlin
	8A	Granvil H. and Brenda L. Brandon
	9A	William Cole Sr. and Catherine L. Tapp
	10A	Carlton B. and Linda B. Kenney Brandon
	12	Samuel Johnson Estate
	13	Mary Lee Wallace
	16	William E. and Janice B. Gibbs
38-1	17	William E. and Janice B. Gibbs
	A	Beverly Brandon Pressly
	B	Granvil H. and Brenda L. Brandon
	C	Granvil H. and Brenda L. Brandon
42	D	Granvil H. and Brenda L. Brandon
	36	Mary Sue Clay Smith
	37B	John M. Wilkinson
	37D	Curtis D. Jr. and April L. Gill
	37G	Marvin L. and Michael B. Bishop
	38	Charles M. Sr. and Norma J. Townsley

Tax Map	Parcel #	Owner Name(s)
42	38A	Mary Regina Johnson or Katherine Elizabeth Quick
	45	Prospect Christian Church
	46	Charles A. and Beverly J. Hawkins
	47	Charles A. and Beverly J. Hawkins
	47A	Charles Albert and Beverly Jones Hawkins Life Estate
43	2	John M. Wilkerson
	3B	Christopher S. or Aimee S. Kidd
	3C	David B. Smith
	3C1	Danielle M. Herrin
	9	Ann B. Clay Life Estate
43-14	4	Tomas M. Sanchez
	5	David William and Amanda Noel Durham
	6	Keith A. Miller
	7	Thomas Bantan Jr.
	8	Lonnie R. and Karen N. Worrell
	9	Keith H. and Kevin S. and Kenneth L. Henshaw

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

DWCWB 1-10

SOIL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

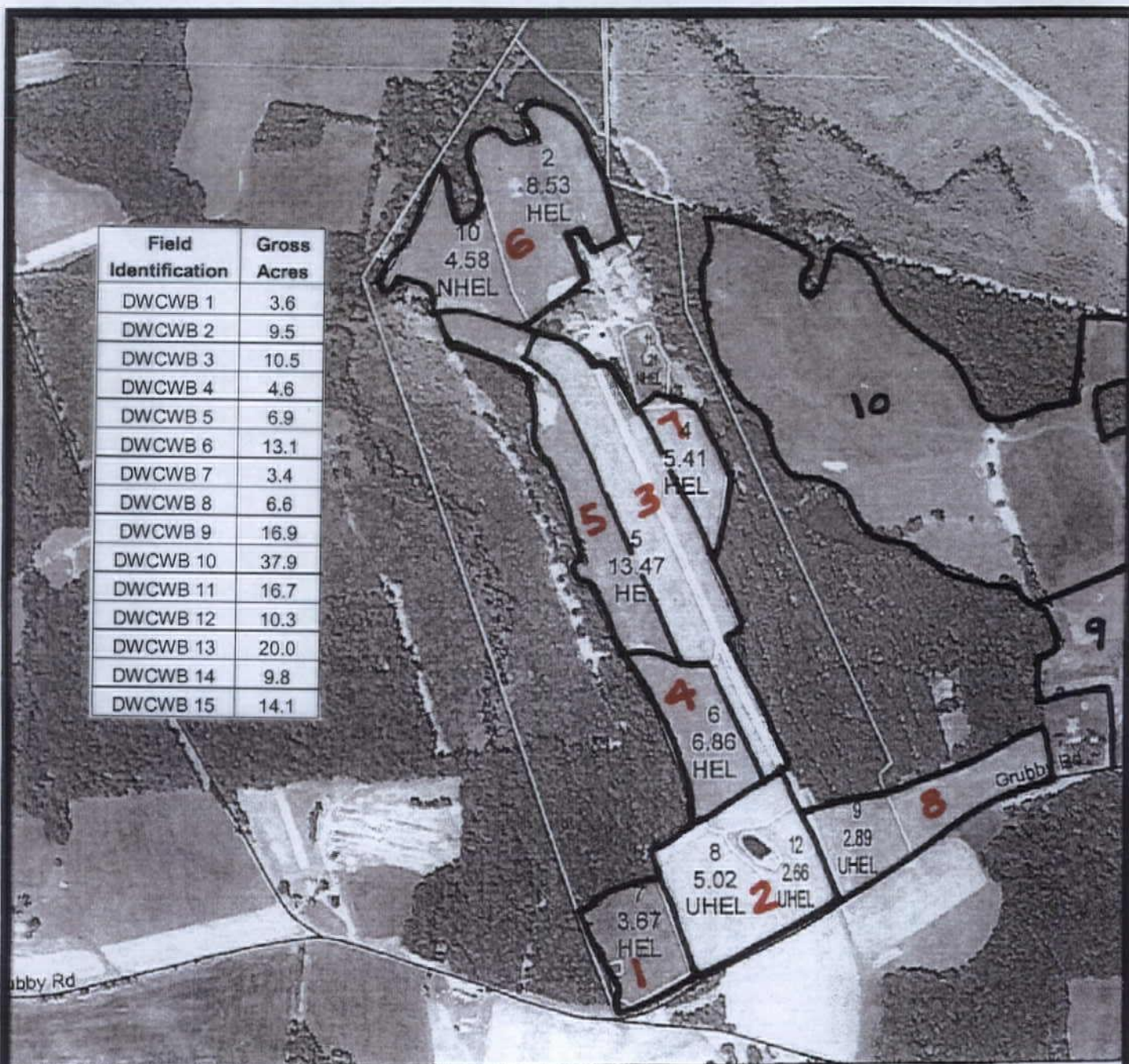
DWCWB 11-15

SOIL MAP



Inc.

(Biosolids Land Application)



Farm 4295

Tract 2451

Scale: 1" = 660 ft.

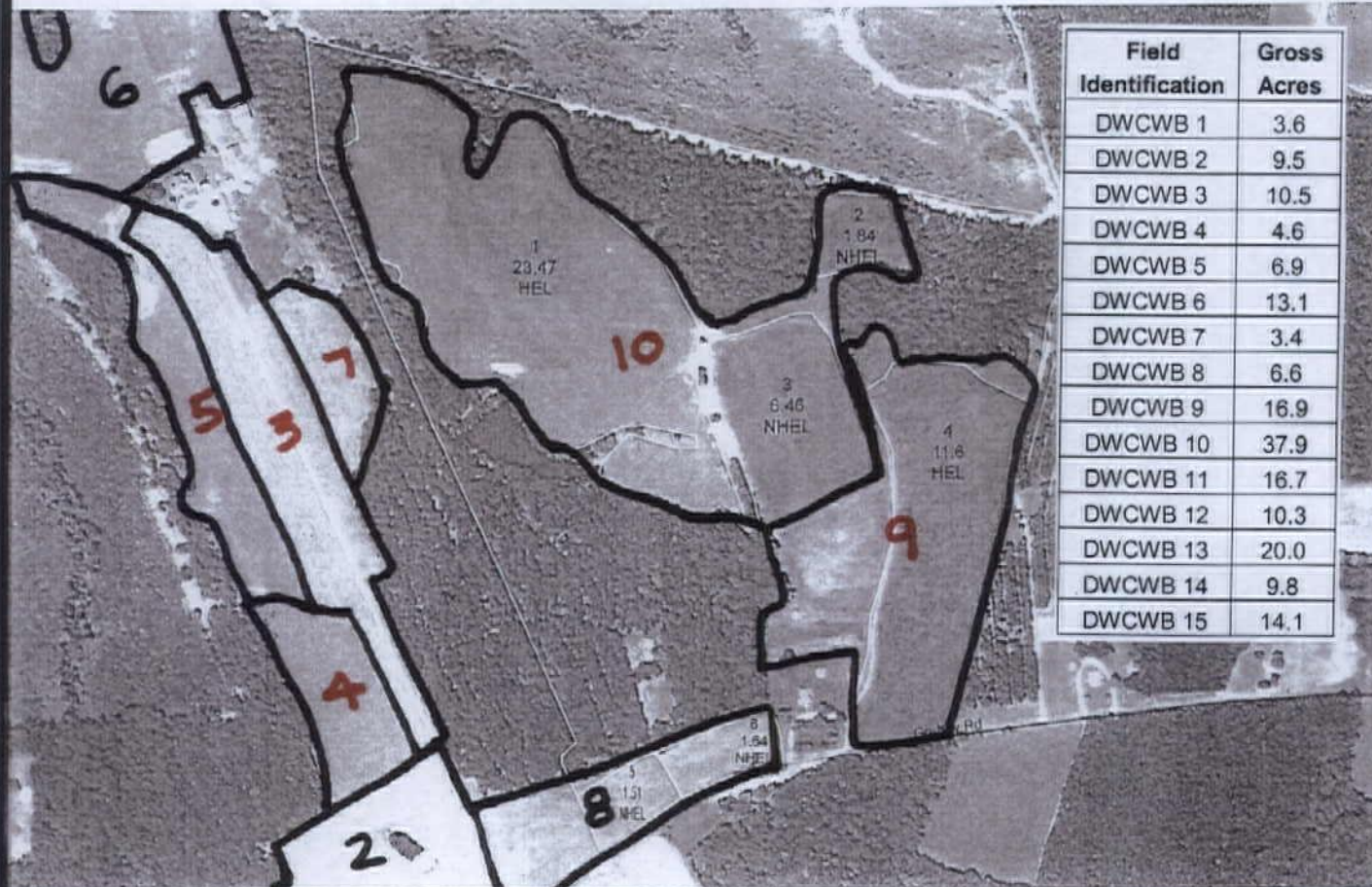
DWCWB 1-8

AERIAL MAP

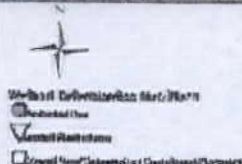


Recyc SystemsTM Inc.

(Biosolids Land Application)



Field Identification	Gross Acres
DWCWB 1	3.6
DWCWB 2	9.5
DWCWB 3	10.5
DWCWB 4	4.6
DWCWB 5	6.9
DWCWB 6	13.1
DWCWB 7	3.4
DWCWB 8	6.6
DWCWB 9	16.9
DWCWB 10	37.9
DWCWB 11	16.7
DWCWB 12	10.3
DWCWB 13	20.0
DWCWB 14	9.8
DWCWB 15	14.1



Farm 4295
Tract 5605

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



Dinwiddie, Va.

February 06, 2014

Scale:

1" = 660 ft.

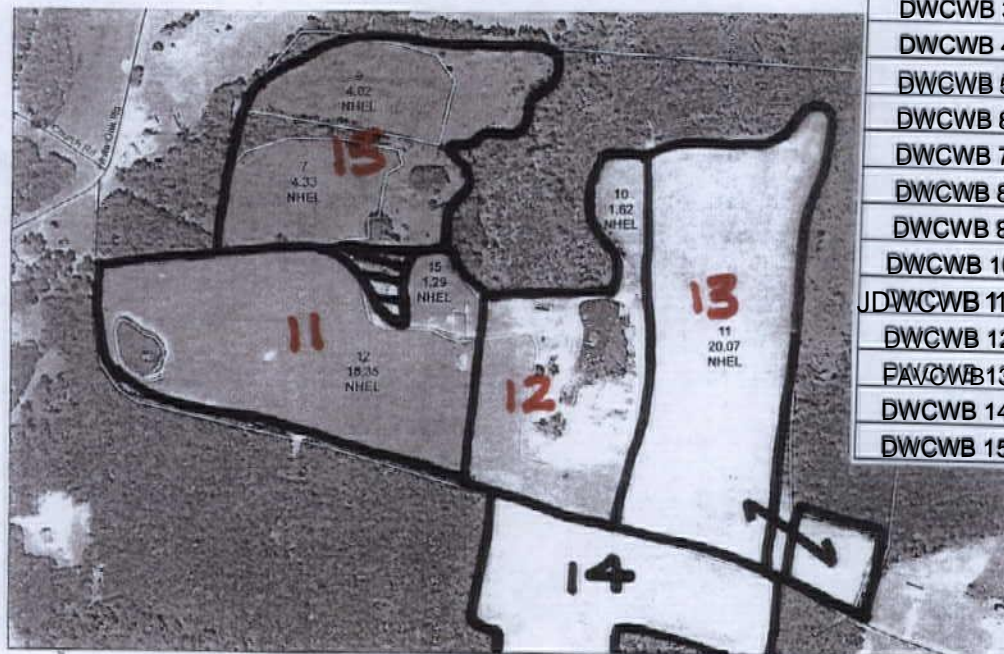
DWCWB 4-7, 9-10

AERIAL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Field Identification	Gross Acres
DWCWB 1	3.6
DWCWB 2	9.3
DWCWB 3	10.5
DWCWB 4	4.6
DWCWB 5	6.9
DWCWB 6	13.1
DWCWB 7	3.4
DWCWB 8	6.6
DWCWB 8	16.9
DWCWB 10	37.9
JDWCWB 11	16.7
DWCWB 12	10.3
PAWCWB 13	20.0
DWCWB 14	9.3
DWCWB 15	14.1

Wetland Identification

 Wetland Identification

 Wetland Identification

Farm 4295
Tract 5915

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-526 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

USDA FSA

Dinwiddie, Va.

February 06, 2014

Scale: 1" = 660 ft.

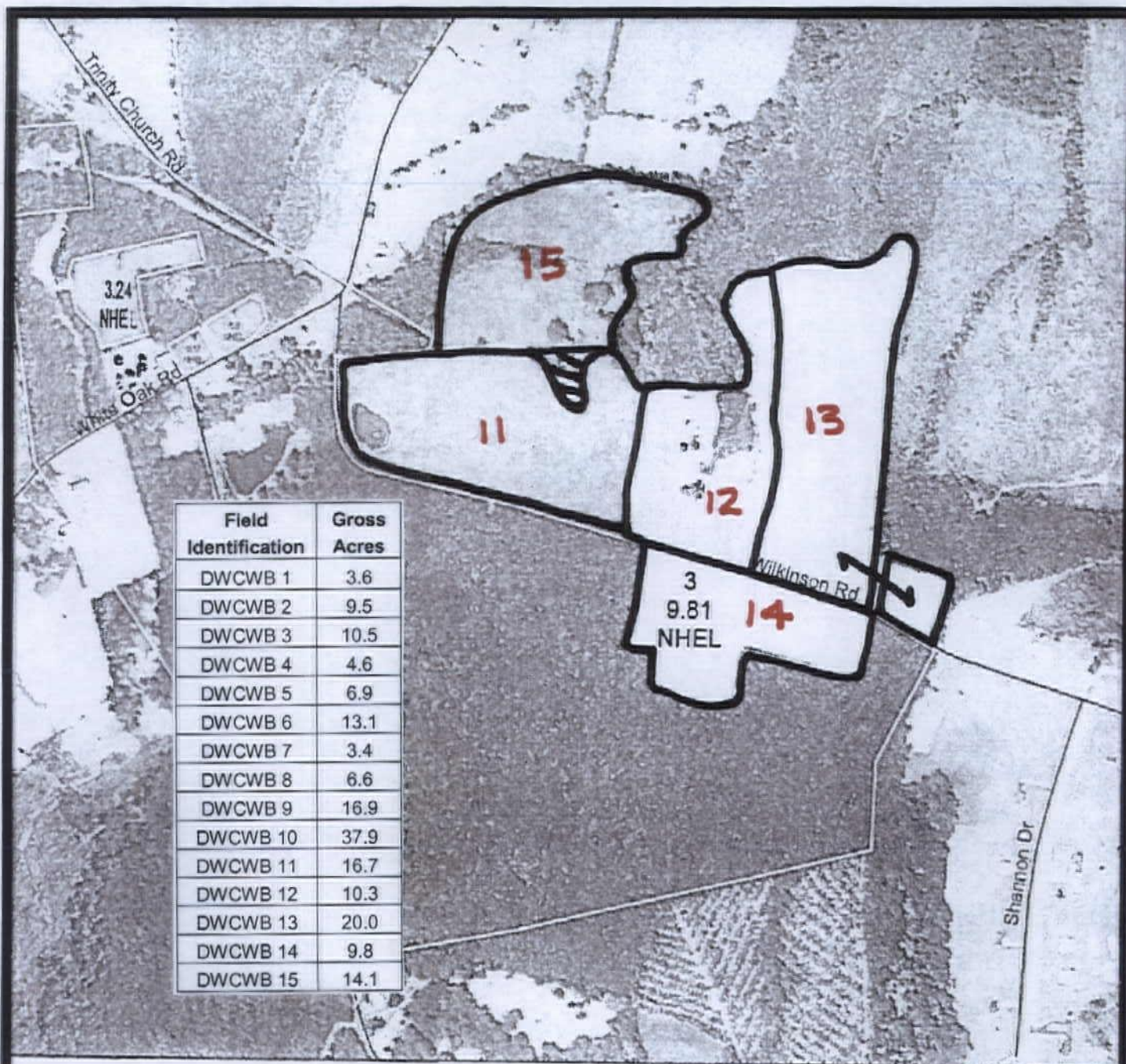
DWCWB 11-13, 15

AERIAL MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Farm 4295
Tract 6025

USD

















Scale: 1" = 660 ft.

DWCWB 11-15

AERIAL MAP

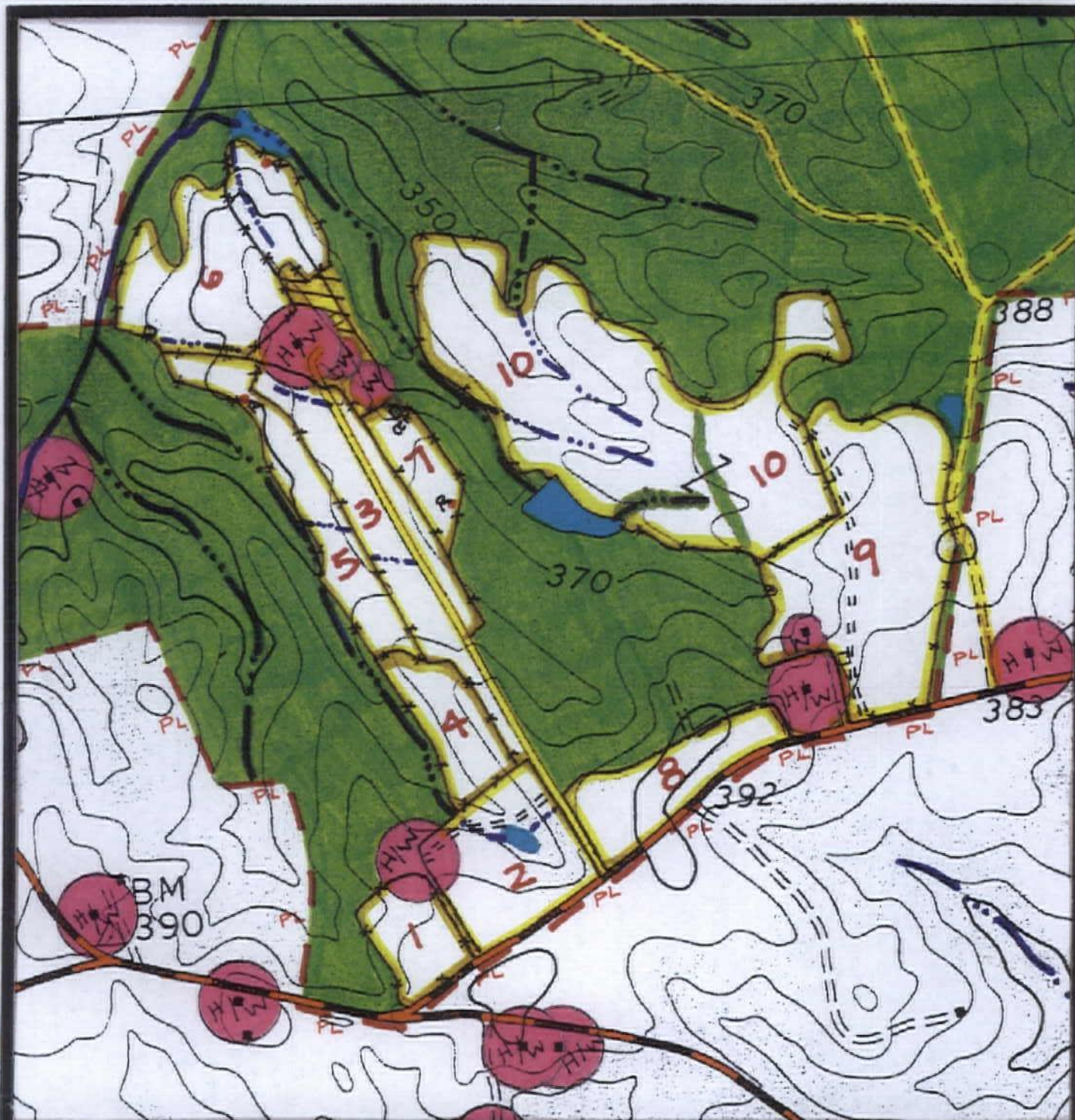


Legend for Site Plan

	House and Well
 	Well / Spring
 	Perennial Streams & Surface
	Wet Spot
	Intermittent Stream / Drainage
	Trees and Woods
	Private Drive
	Rock / Rocky Area
	Sinkhole
	Severely Eroded Spot
	State Road
  	Field Boundary / Fence
	Slope
	Frequent Flooded Soil

Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

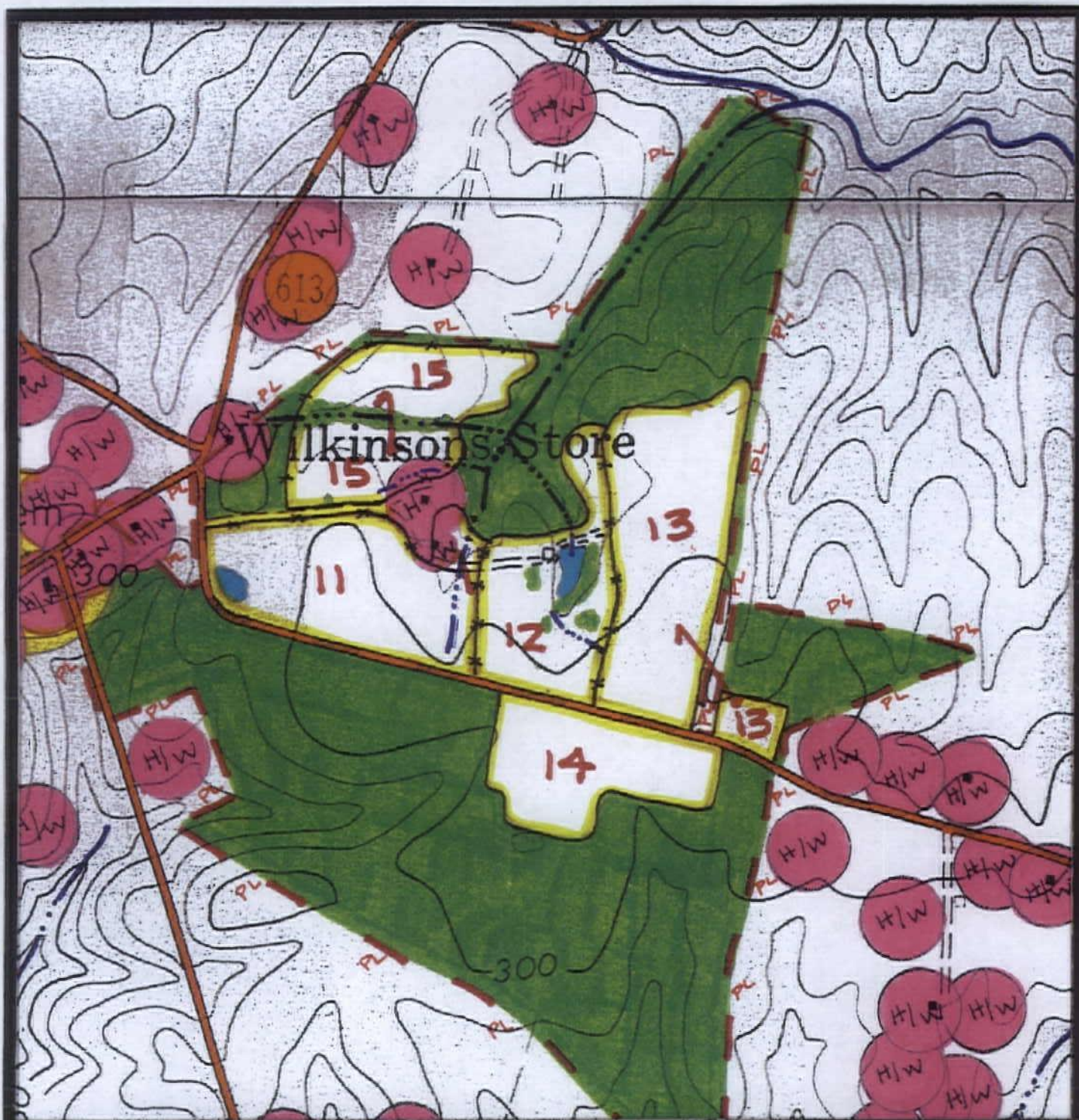
DWCWB 1-10

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 660 ft.

DWCWB 11-15

SITE PLAN



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 2000 ft.

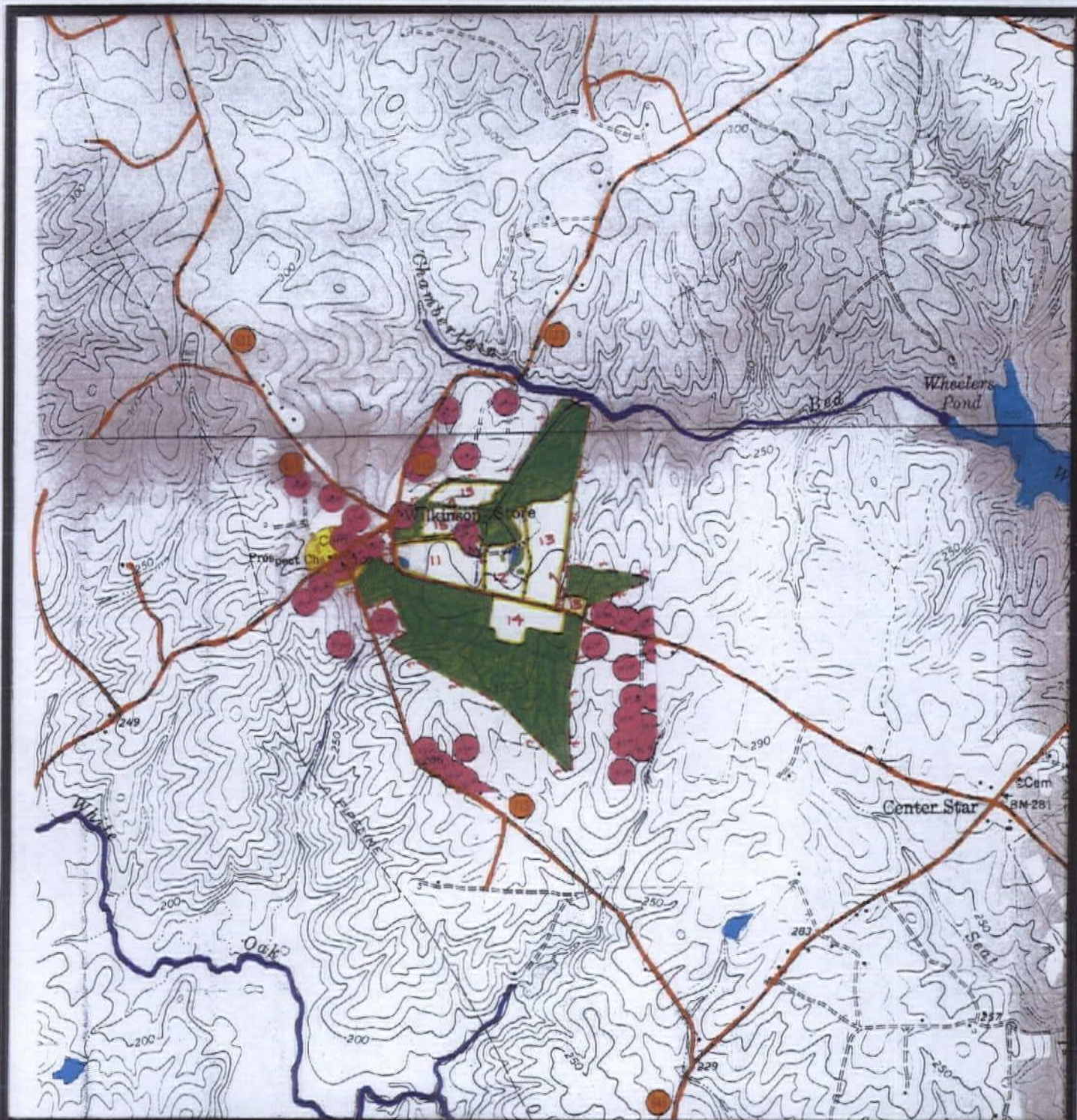
DWCWB 1-10

TOPOGRAPHIC MAP



Recyc SystemsTM Inc.

(Biosolids Land Application)



Scale: 1" = 2000 ft.

DWCWB 11-15

TOPOGRAPHIC MAP

